S.V. CIVIL ENGINEERING CONSULTANTS
An ISO 9001 2008 Certified Company

Job No.: SVCE/BBMP/VC/W No.17/2016-17

Date: 28.02.2016

TEST REPORT

CLIENT	:	**Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
AGENCY	:	**M/s Vrushabhadri Construction,** Bangalore.
NAME OF THE WORK	:	Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	425 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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⇒ Any Query regarding the report must be reported reported within 30days from the date of testing.

For SV CIVIL ENGINEERING CONSULTANTS

Authorised Signator

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S.V. CIVIL ENGINEERING CONSULTANTS
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Job No.: SVCE/BBMP/VC/W No.17/2016-17 Date : 27.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.

Date of Testing : 27.02.2016

Material : Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	165	8.25	12.70	87.3	75-100
1.18	150	7.50	20.20	79.8	55-90
600 Micron	529	26.45	46.65	53.4	35-59
300 Micron	635	31.75	78.40	21.6	8-30
150 Micron	345	17.25	95.65	4.3	0-10

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Job No.: SVCE/BBMP/VC/W No.17/2016-17 Date : 27.02.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.

Date of Testing : 27.02.2016

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	180	1.20	1.20	98.80	95-100
20	8326	55.51	56.71	43.29	30-70
10	3562	23.75	80.45	19.55	10-35
4.75	2536	16.91	97.36	2.64	0-5

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Job No.: SVCE/BBMP/VC/W No.17/2016-17 Date : 27.02.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.

Date of Testing : 27.02.2016
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2930	58.6	62.4	37.6	25-55
4.75	1565	31.3	93.7	6.3	0-10

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S.V. CIVIL ENGINEERING CONSULTANTS
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Job No.: SVCE/BBMP/VC/W No.17/2016-17 Date : 23.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
Date of Testing : 23.02.2016
Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	15	1.50	1.50	98.5	95-100
2.36	19	1.90	3.40	96.6	95-100
1.18	30	3.00	6.40	93.6	90-100
600 Micron	75	7.50	13.90	86.1	80-100
300 Micron	246	24.60	38.50	61.5	20-65
150 Micron	489	48.90	87.40	12.6	0-15

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Job No.: SVCE/BBMP/VC/W No.17/2016-17

Date : 27.02.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.

Date of Testing : 27.02.2016

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	66	6.60	8.20	91.8	70-100
600 Micron	80	8.00	16.20	83.8	40-100
300 Micron	256	25.60	41.80	58.2	5-.70
150 Micron	482	48.20	90.00	10.0	0-15

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S.V. CIVIL ENGINEERING CONSULTANTS
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Job No.: SVCE/BBMP/VC/W No.17/2016-17 Date: 29.03.2016

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **M/s Vrushabhadri Construction,** Bangalore.
Name of the work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
Sample ID : Cement Mortar
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2016	29.03.2016	0.789	133.5	53.40
3	01.03.2016	29.03.2016	0.760	134.2	53.68
3	01.03.2016	29.03.2016	0.758	136.5	54.60

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Job No.: SVCE/BBMP/VC/W No.17/2016-17

Date: 29.03.2016

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **M/s Vrushabhadri Construction,** Bangalore.
Name of the work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
Sample ID : Cement Mortar (Plastering)
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2016	29.03.2016	0.789	133.2	53.28
3	01.03.2016	29.03.2016	0.795	134.6	53.84
3	01.03.2016	29.03.2016	0.764	135.8	54.32

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Job No.: SVCE/BBMP/VC/W No.17/2016-17

Date: 27.02.2016

TEST REPORT

CLIENT	:	**Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
AGENCY	:	**M/s Vrushabhadri Construction,** Bangalore.
NAME OF THE WORK	:	Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Bricks Test – Class 5
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.62 N/mm^2	Class designation 5
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	15.59 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos.)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		3848 mm	(3800 ± 80 mm)
(b)	Measurement of Width in mm		1820 mm	(1800 ± 40 mm)
(c)	Measurement of Height in mm		1415 mm	(1400 ± 40 mm)

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Job No.: SVCE/BBMP/VC/W No.17/2016-17

Date: 21.03.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Agency : **M/s Vrushabhadri Construction,** Bangalore.
Name of Work : Construction of first floor office for AEE (Yeshwanthpur) at JP park Swimming pool Parking area in Ward No.17, BBMP, Bangalore.
Sample Identification : 10mm,12mm,16mm,20mm, Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 21.03.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.62	549	556	14.5
2	Fe 500	12	0.88	555	567	16
3	Fe 500	16	1.58	564	575	15
4	Fe 500	20	2.46	578	586	17

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